

Title (en)
DEGREASING COMPOSITIONS

Title (de)
ENTFETTENDE ZUSAMMENSETZUNGEN

Title (fr)
COMPOSITIONS DE DEGRAISSAGE

Publication
EP 1578893 B1 20090617 (EN)

Application
EP 03779477 A 20031105

Priority
• US 0335374 W 20031105
• US 33477502 A 20021231

Abstract (en)
[origin: US7235517B2] Degreasing compositions that may be used, for example, to degrease substrates such as contaminated surfaces of automobile engines are disclosed. The degreasing compositions comprise a builder, an amphoteric surfactant, and an alkoxyated acetylenic diol having the structure of formula (I) or (II): where: $R_{>1}$ and $R_{>4}$ are, independently, alkyl radicals containing from 3 to 10 carbon atoms; $R_{>2}$ and $R_{>3}$ are, independently, selected from the group consisting of methyl and ethyl; and $(x+y)=2$ to 50; where: r and t are each, independently, 1 or 2; $(n+m)=1$ to 30; and $(p+q)=1$ to 30. Certain embodiments of the degreasing composition are non-caustic, low VOC and may be low phosphate or phosphate-free.

IPC 8 full level
C11D 1/94 (2006.01); **C23G 1/14** (2006.01); **C23G 5/032** (2006.01); **C11D 1/72** (2006.01); **C11D 1/722** (2006.01); **C11D 1/90** (2006.01)

CPC (source: EP KR US)
C11D 1/94 (2013.01 - EP KR US); **C23G 1/14** (2013.01 - EP US); **C23G 5/032** (2013.01 - KR); **C11D 1/72** (2013.01 - EP US); **C11D 1/722** (2013.01 - EP US); **C11D 1/90** (2013.01 - EP US)

Cited by
CN106190619A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2004127380 A1 20040701; **US 7235517 B2 20070626**; AT E434031 T1 20090715; AU 2003285154 A1 20040729; BR 0317784 A 20051122; CA 2508782 A1 20040722; CN 1732253 A 20060208; DE 60328042 D1 20090730; EP 1578893 A1 20050928; EP 1578893 B1 20090617; JP 2006512443 A 20060413; KR 20050089992 A 20050909; US 2007219109 A1 20070920; WO 2004061062 A1 20040722

DOCDB simple family (application)
US 33477502 A 20021231; AT 03779477 T 20031105; AU 2003285154 A 20031105; BR 0317784 A 20031105; CA 2508782 A 20031105; CN 200380107997 A 20031105; DE 60328042 T 20031105; EP 03779477 A 20031105; JP 2004564872 A 20031105; KR 20057012254 A 20050629; US 0335374 W 20031105; US 75063507 A 20070518